

FIG. 1

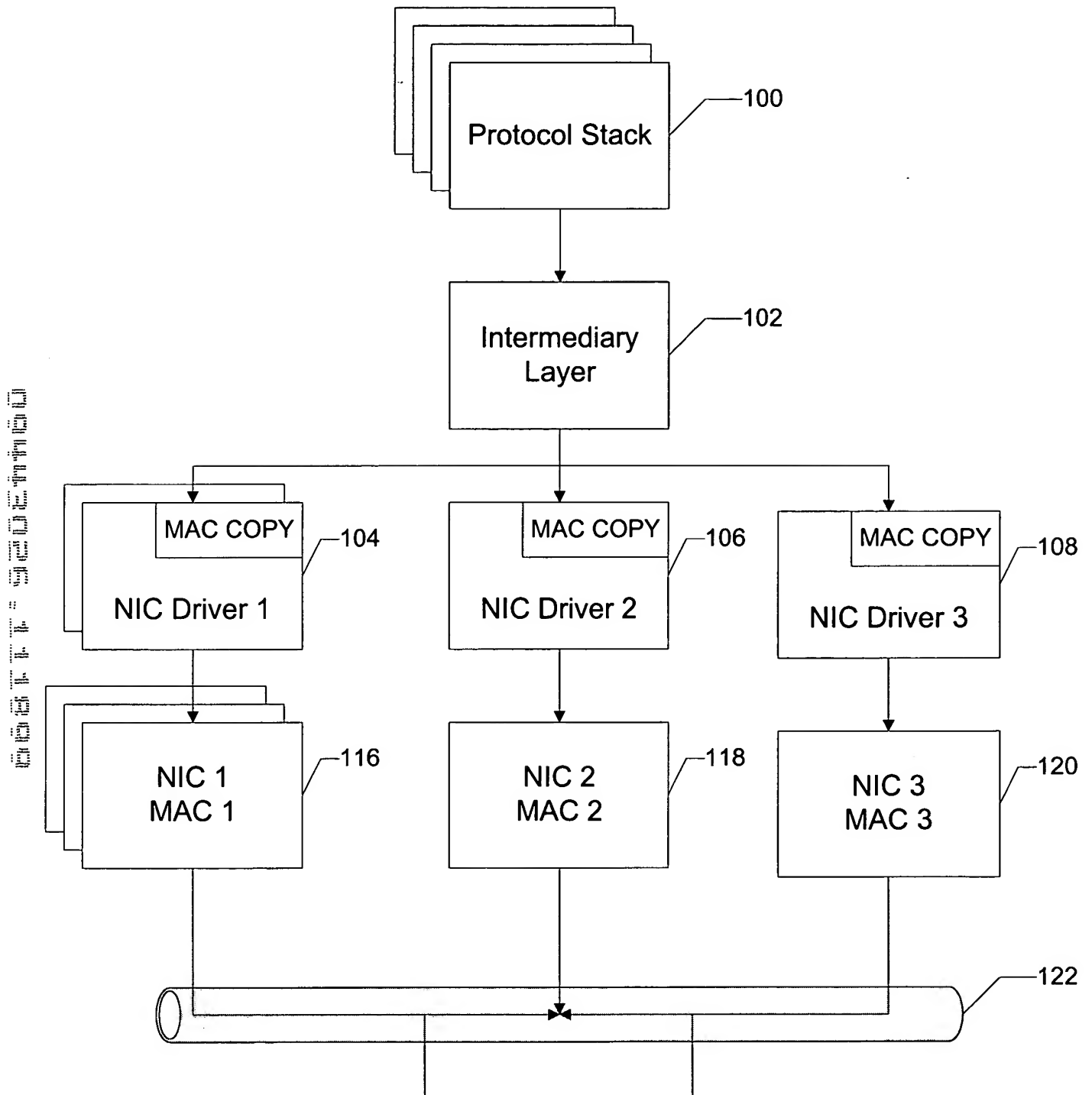


FIG. 2

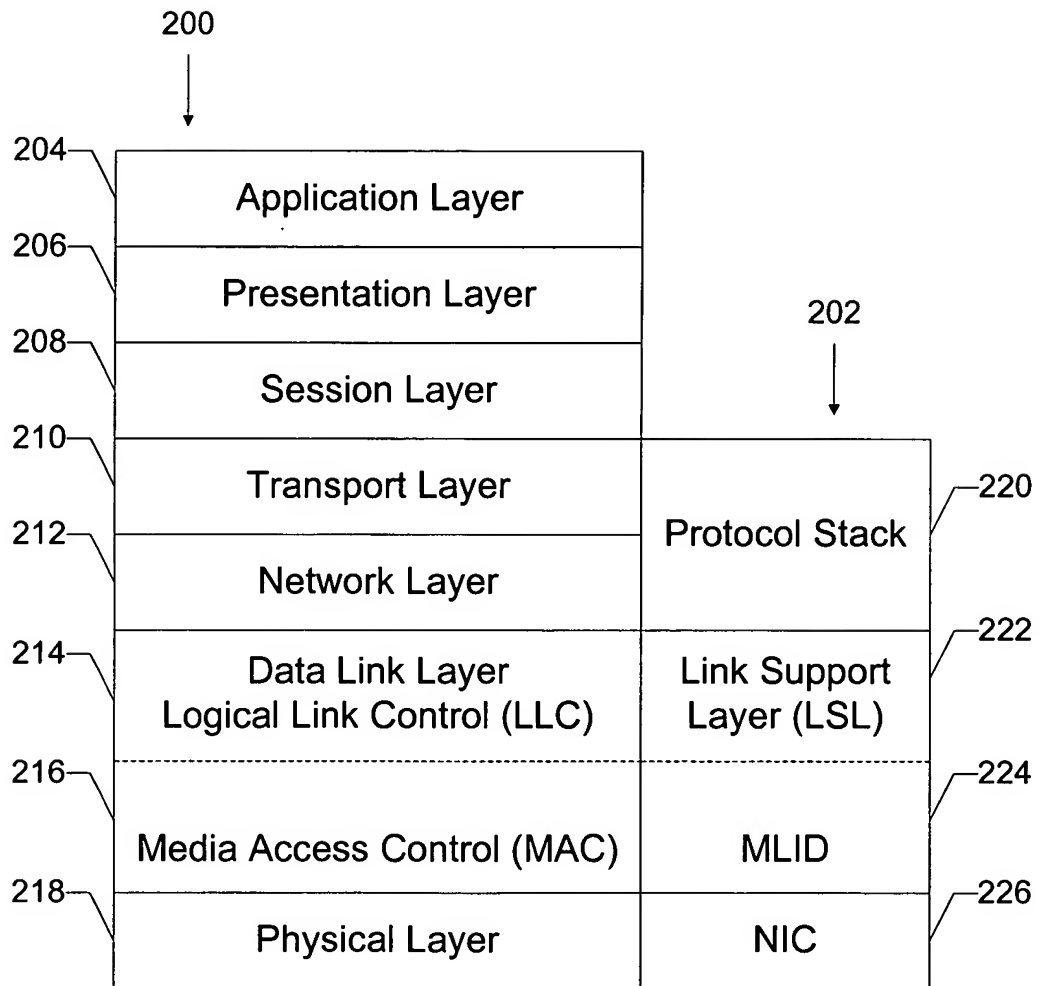


FIG. 3

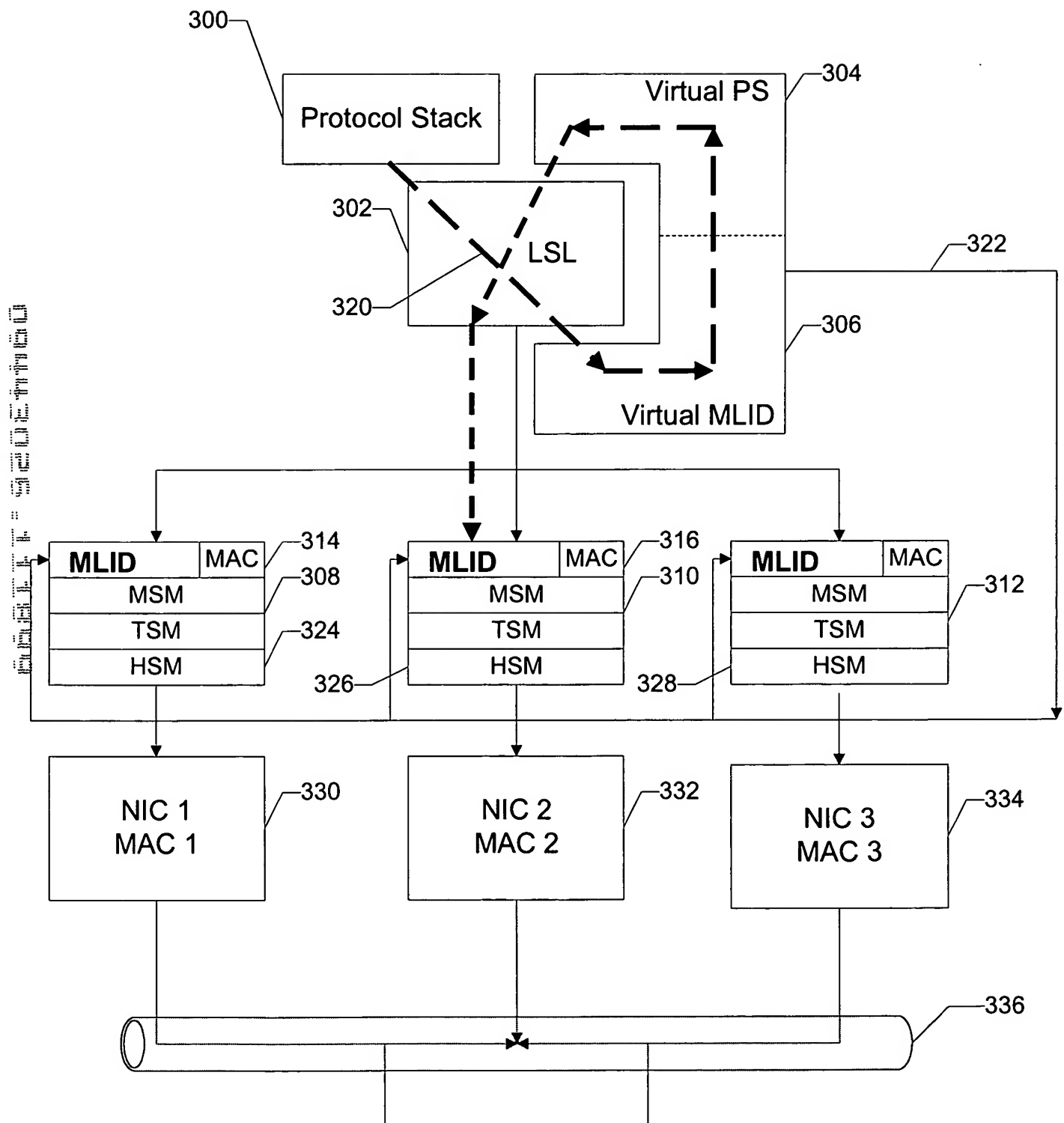


FIG. 4

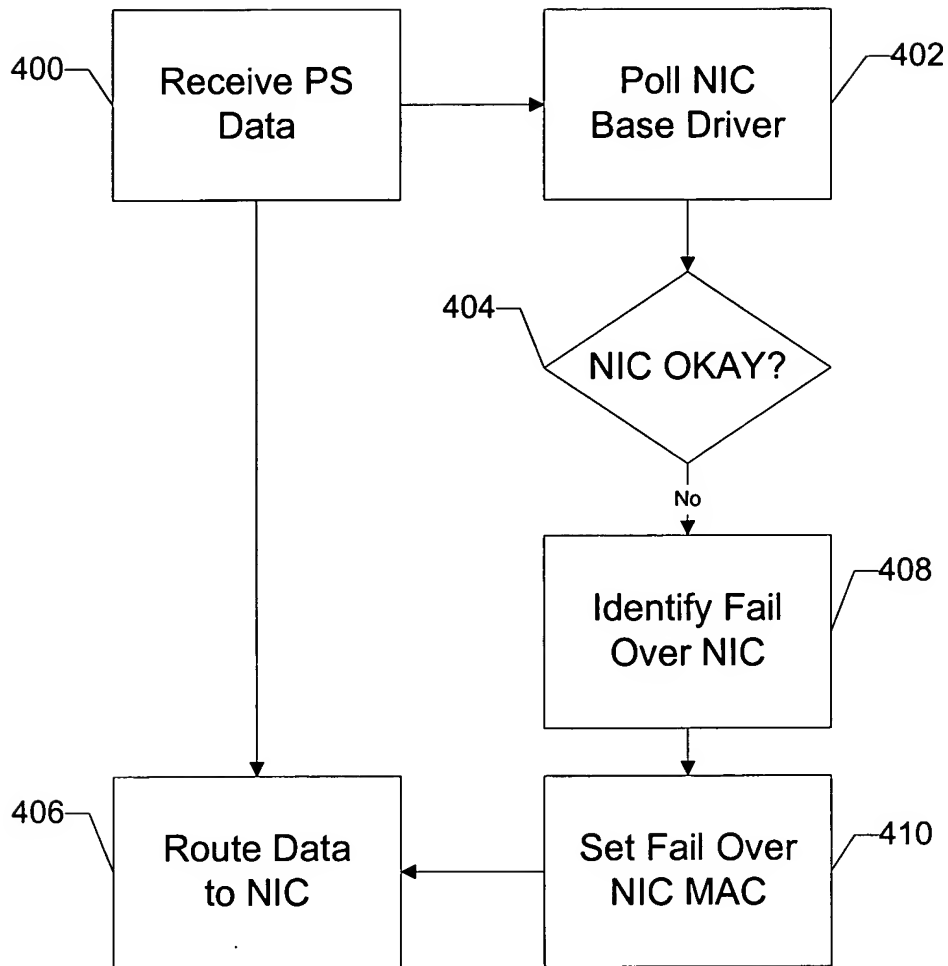


FIG. 5

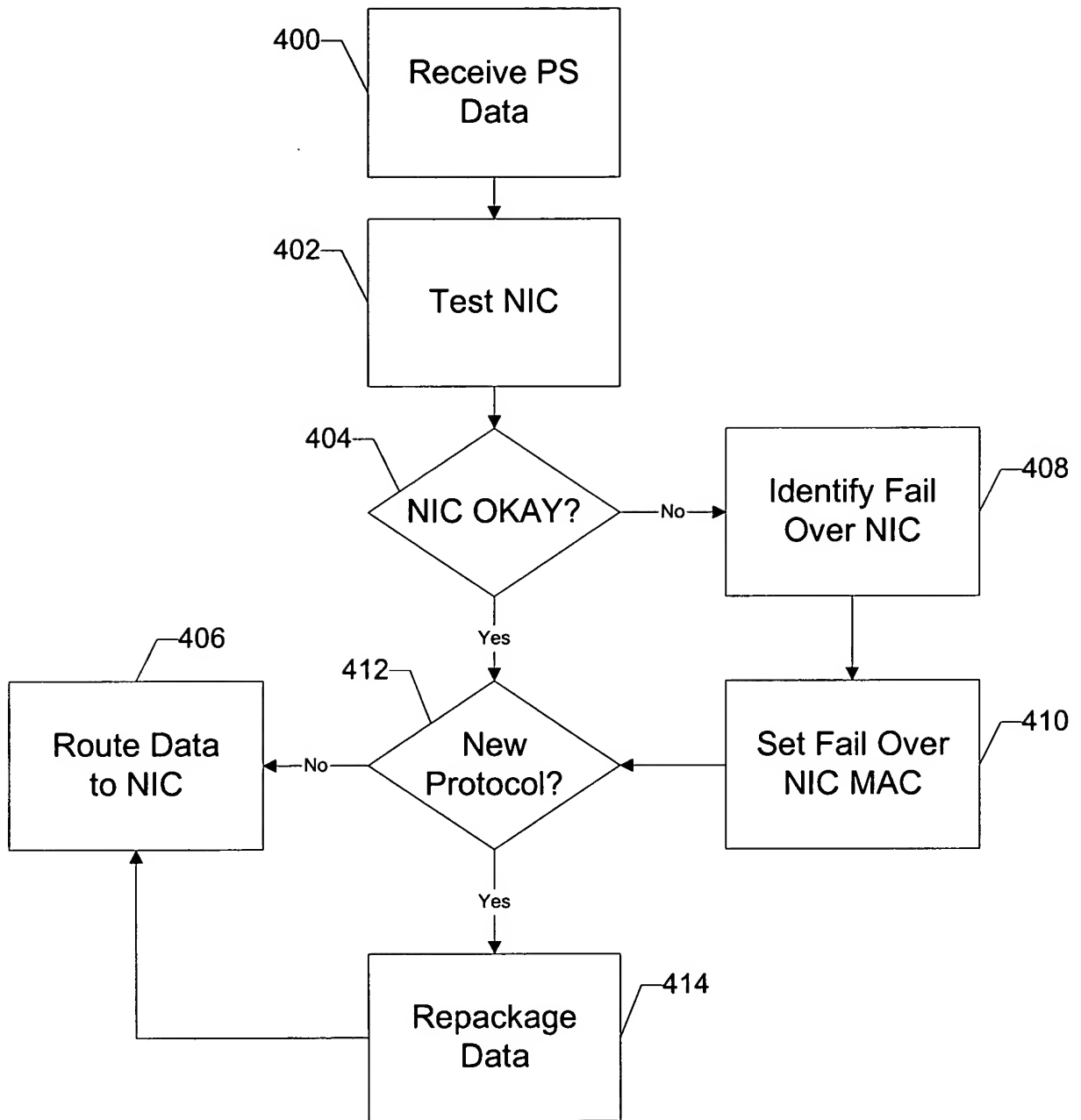


FIG. 6A

Function IdentifyYourself()

Arguments: Base Driver Identifier

VendorID: Vendor ID value of Intermediate driver

CommRevision: Intermediate driver communication interface
revision number

Actions: Send control request to cause driver self-identification

Returns: CommRevision: driver communication interface revision number

VendorID: Vendor ID value of base driver

ResponseCode: Result code of any command to base driver.

CopyrightString: for verifying base driver authorization

Function ReportNodeAddress()

Arguments: Base Driver Identifier

VendorID: Vendor ID value of Intermediate driver

CommRevision: Intermediate driver communication interface
revision number

Actions: Send control request to cause driver to report its MAC address.

Returns: MAC address

Function UpdateNodeAddress()

Arguments: Base Driver Identifier

VendorID: Vendor ID value of Intermediate driver

CommRevision: Intermediate driver communication interface
revision number

MAC Address: New MAC address to be used by NIC.

Actions: Send control request to cause driver to replace stored MAC

Returns: Success/Failure

Function ReportStatus()

Arguments: Base Driver Identifier

VendorID: Vendor ID value of Intermediate driver

CommRevision: Intermediate driver communication interface
revision number

Actions: Send control request to cause driver to report status

Returns: Link change

Line speed

Duplex

Hardware failure condition

PCI event

FIG. 6B

Function ReportCapabilities()

526 Arguments: Base Driver Identifier
 VendorID: Vendor ID value of Intermediate driver
 CommRevision: Intermediate driver communication interface
 revision number
 Actions: Send control request to cause driver to report capabilities
 Returns: Array containing identifiers for supported protocols, e.g.,
 528 Out of Band
 530 Virtual LAN
 532 IP Encryption

Function ReportVlanCapabilities()

534 Arguments: Base Driver Identifier
 VendorID: Vendor ID value of Intermediate driver
 CommRevision: Intermediate driver communication interface
 revision number
 Actions: Send control request to cause driver to report VLAN abilities
 Returns: Array containing identifiers for supported VLAN protocols
 536 Operating Mode
 538 RX Filtering
 540

Function VlanControl()

542 Arguments: Base Driver Identifier
 VendorID: Vendor ID value of Intermediate driver
 CommRevision: Intermediate driver communication interface
 revision number
 544 VLAN mode
 Actions: Send control request to cause driver to switch VLAN modes
 Returns: Success/Failure

Function SetControl()

546 Arguments: Base Driver Identifier
 VendorID: Vendor ID value of Intermediate driver
 CommRevision: Intermediate driver communication interface
 revision number
 548 Mode
 Actions: Send control request to cause driver to switch to Mode
 Returns: Success/Failure

Function Disconnect()

550 Arguments: Base Driver Identifier
 VendorID: Vendor ID value of Intermediate driver
 CommRevision: Intermediate driver communication interface
 revision number
 Actions: Send control request to notify driver of communication end
 Returns: Command receipt acknowledgment

FIG. 7

